## **EAST Search History**

## EAST Search History (Prior Art)

| Ref#   | Hits | Search Query                                    | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|--------|------|---|---|---------------------|---------|---------------------|
| L1     | 0    | ("solidwithoxidewithfuelwithstackwithcell").PN. | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2010/07/23<br>15:49 |
| 2      | 898  | solid with oxide with fuel with stack with cell | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR                  | OFF     | 2010/07/23<br>15:49 |
| <br>.3 | 1793 |   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2010/07/23<br>15:49 |
| L4     | 49   | i e e e e e e e e e e e e e e e e e e e         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2010/07/23<br>16:07 |
| .5     | 1    | 428/317.9 and I3 and (seal or gasket) and fiber | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2010/07/23<br>16:27 |
| L6     | 20   |   | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2010/07/23<br>16:27 |
| L7     | 1    |   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2010/07/23<br>16:28 |

| L8     | 1       | 428/311.51 and I3 and (seal or gasket) and fiber                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/07/23<br>16:28 |
|--------|---------|--|---|----|-----|---------------------|
| L9     | 1       | 428/311.51 and I3 and (seal or gasket) and fiber                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/07/23<br>16:28 |
| L10    | 1       | 428/312.6 and I3 and (seal or gasket) and fiber                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/07/23<br>16:28 |
| L11    | 1       | 428/312.8 and I3 and (seal or gasket) and fiber                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/07/23<br>16:28 |
| L12    | 1       | ("20040135324"). PN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2010/07/23<br>16:43 |
| S1     | 1       | (("5405571") or ("2002-0024185")).PN.                                    | USPAT; USOCR  | OR | OFF | 2007/01/23<br>18:16 |
| S2     | 0       | ("2002-0024185").PN.   | USPAT; USOCR  | OR | OFF | 2006/03/01<br>19:41 |
| S3     | 0       | ("2002-0024185").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2006/03/01<br>19:41 |
| <br>S4 | 1156    | Ghosh.in.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2006/03/01<br>19:41 |
| 35     | 4420251 | Ghosh, et al.in.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2006/03/01<br>19:42 |
| S6     | 1       | "20020024185".pn.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2006/03/01<br>19:42 |
| S7     | 73      | 416/241B and seal and (pores or dense or density or pourous or porosity) | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2006/03/02<br>16:50 |

| S8  | 48 | 416/241B.ccls. and seal and (pores or dense or density or pourous or porosity)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>14:27 |
|-----|----|---|---------------------------|----|-----|---------------------|
| S9  | 2  | ("2002/0024185").UR <b>P</b> N.   | USPAT                     | OR | OFF | 2006/03/02<br>17:36 |
| S10 | 23 | ("20020024185"   "3468712"   "3484298"   "3530005"   "4597170"   "4767518"   "5035962"   "5037525"   "5300370"   "5316644"   "5385792"   "5527363"   "5629103"   "5676806"   "5683828"   "5770327"   "5776624"   "5858567"   "5858569"   "5863671").PN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/02<br>17:36 |
| S11 | 0  | 416/241B.ccls. and seal and (pores or dense or density or pourous or porosity)<br>and (35-45)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>13:54 |
| S12 | 0  | 416/241B.ccls. and seal and (prefired adj3 porosity) and (pores or dense or density or pourous or porosity)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>14:28 |
| S13 | 0  | 416/241B.ccls. and seal and (fired adj3 porosity) and (pores or dense or density or pourous or porosity)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>14:28 |
| S14 | 0  | 416/241B.ccls. and seal and (prefired) and (pores or dense or density or pourous or porosity)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>14:28 |
| S15 | 16 | 416/241B.ccls. and seal and (prefired or sintered) and (pores or dense or density or pourous or porosity)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>14:28 |
| S16 | 2  | ("2002/0024185").URPN.  | USPAT                     | OR | OFF | 2006/03/04<br>15:12 |
| S17 | 11 | ("20020024185"   "20030012997"   "4910100"   "5532072"   "5549983"  <br>"5811202"   "6045935"   "6132895"   "6361892"   "6406807"   "6444339").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>15:32 |
| S18 | 62 | 428/312.2 and seal and (dense or density or pores or porous or porosity)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>15:38 |
| S19 | 1  | "428"/\$.ccls. and seal and (dense or density or pores or porous or porosity) and (tape adj2 casting) and sinter and (pre adj fired)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>15:56 |
| S20 | 0  | "428"/\$.ccls. and (seal adj2 unsintered) and (dense or density or pores or porous or porosity) and (tape adj2 casting) and sinter and (pre adj fired)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>15:57 |
| S21 | 0  | "428"/\$.ccls. and (seal adj2 unsintered) and (dense or density or pores or porous or porosity) and (tape adj2 casting)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>15:57 |
| S22 | 0  | "428"/\$.ccls. and (seal with unsintered) and (dense or density or pores or porous or porosity) and (tape adj2 casting)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>15:58 |
| S23 | 0  | "428"/\$.ccls. and (seal same unsintered) and (dense or density or pores or porous or porosity) and (tape adj2 casting)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>15:58 |
| S24 | 15 | "428"/\$.ccls. and (seal same unsintered) and (dense or density or pores or porous or porosity)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>16:01 |
| S25 | 71 | Brule.in.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>16:13 |

| S26         | 0     | ("2004/0135324").URPN.  | USPAT                     | OR | OFF | 2006/03/04<br>16:05 |
|-------------|-------|---|---------------------------|----|-----|---------------------|
| S27         | 0     | ("2004/0135324").URPN.  | USPAT                     | OR | OFF | 2006/03/04<br>16:05 |
| S28         | 0     | ("2004/0104544").URPN.  | USPAT                     | OR | OFF | 2006/03/04<br>16:07 |
| S29         | 0     | (Brule.in.) and ("chahal.in") and (tang.in.)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>16:14 |
| S30         | 0     | (Brule.in.) and ("chahal.in")   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>16:14 |
| S31         | 0     | ("chahal.in")   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>16:14 |
| S32         | 0     | ("zhang.in")  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>16:15 |
| S33         | 11075 | Zhang.in.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>16:15 |
| S34         | 1     | Zhang.in. and (Brule.in.)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>16:15 |
| <b>S</b> 35 | 30    | ("3634113"   "4005989"   "4180484"   "4209348"   "4321310"   "4321311"   "4507394"   "4585481"   "4880614"   "4895201"   "4897315"   "4927714"   "4936745"   "5008221"   "5073433"   "5262245"   "5346563"   "5514482"   "5538796"   "5687679"   "5705231"   "5780157"   "6117200"   "6117560"   "6177200"   "6183884"   "6187453"   "6500283"   "6582834"   "RE32121").PN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>16:57 |
| S36         | 34    | (Fuel adj2 cell) and (gas adj2 seal) and (pores or porosity or density or dense) and (pre-fired or fired) and binder  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>17:11 |
| S37         | 844   | 277/650.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>17:11 |
| S38         | 0     | 277/650.ccls. and (Fuel adj2 cell) and (gas adj2 seal) and (pores or porosity or density or dense) and (pre-fired or fired)and binder   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>17:12 |
| S39         | 0     | 277/650.ccls. and (gas adj2 seal) and (pores or porosity or density or dense) and (pre-fired or fired) and binder   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>17:12 |
| S40         | 3     | 277/650.ccls. and (gas adj2 seal) and (pores or porosity or density or dense) and binder  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>17:16 |
| S41         | 10    | "277"/\$.ccls. and (gas adj2 seal) and (pores or porosity or density or dense) and binder   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>17:19 |
| S42         | 26    | "277"/650.ccls. and (gas adj2 seal)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>17:19 |
| S43         | 11    | "277"/650.ccls. and (gas adj2 seal) and (pores or porosity or dense or density)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/03/04<br>17:20 |

| S44 | 2830 | Moody.in.                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;            | OR | OFF | 2006/12/16<br>15:05 |
|-----|------|---|---|----|-----|---------------------|
| S45 | 1    | Moody.in. and dorcas                          | IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB        | OR | OFF | 2006/12/16<br>15:05 |
| S46 | 353  | 428/312.2.ccls.                               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>09:17 |
| S47 | 1    | S46 and "gas seal"                            | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/23<br>18:17 |
| S48 | 57   | S46 and seal                                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/23<br>18:17 |
| S49 | 52   | S46 and seal and (pore or porous)             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/23<br>18:18 |
| S50 | 53   | S46 and seal and (pore or porous or porosity) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/23<br>18:18 |

| S51  | 20  | S46 and seal and (pore or porous or porosity) and binder  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/23<br>18:18 |
|------|-----|---|---|----|----|---------------------|
| S52  | 12  | S46 and seal and (pore or porous or porosity) and binder and (fiber or fibers)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/23<br>18:19 |
| S53  | 5   | S46 and seal and (pore or porous or porosity) and binder and (fiber or fibers) and (ceramic with powder)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:27 |
| S54  | 14  | (Gas adj1 seal) and (pore or porous or porosity) and binder and (fiber or fibers) and (ceramic with powder)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/23<br>18:30 |
| S55  | 8   | S54 and (percent or percentage)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/23<br>18:31 |
| S56  | 353 | 428/312.2.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:41 |
| \$57 | 3   | S56 and seal and ((increase or increased or increasing or great or greater) with (pore or porous or porosity)) and binder and (fiber or fibers) and (ceramic with powder) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:30 |

| S58 | 79  | (gas with seal) and ((increase or increased or increasing or great or greater) with (pore or porous or porosity)) and binder and (fiber or fibers) and (ceramic with powder)                                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:31 |
|-----|-----|---|---|----|----|---------------------|
| S59 | 62  | (gas with seal) and ((increase or increased or increasing or great or greater) near4 (pore or porous or porosity)) and binder and (fiber or fibers) and (ceramic with powder)                                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:31 |
| S60 | 1   | (gas with seal) and ((increase or increased or increasing or great or greater) near4 (pore or porous or porosity)) and binder and (fiber or fibers) and (ceramic with powder) and (fire or fired) and unfired | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:31 |
| S61 | 104 | S56 and (porous or porosity or pore) with (increase or increasing or increased)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:42 |
| S62 | 7   | S56 and (porous or porosity or pore) with (increase or increasing or increased) and (ceramic adj2 (fiber or fibers))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:47 |
| S63 | 3   | S56 and (porous or porosity or pore) with (increase or increasing or increased) and (ceramic adj2 (fiber or fibers)) and binder   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:48 |
| S64 | 3   | S56 and (porous or porosity or pore) with (increase or increasing or increased) and (ceramic adj2 (fiber or fibers)) and (ceramic adj2 powder)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/24<br>09:52 |

| S65 | 34  | (gas with seal) and (porous or porosity or pore) with (increase or increasing or increased) and (ceramic adj2 (fiber or fibers)) and (ceramic adj2 powder) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/24<br>10:42 |
|-----|-----|--|---|----|-----|---------------------|
| S66 | 1   | ("5824220").PN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2007/01/24<br>10:39 |
| S67 | 70  | (gas with seal) and (porous or porosity or pore) and (increase or increasing or increased) and (ceramic adj2 (fiber or fibers)) and (ceramic adj2 powder)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/24<br>10:42 |
| S68 | 2   | (("6605316") or ("5834108")).PN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2007/01/27<br>18:33 |
| S69 | 353 | 428/312.2.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>09:18 |
| S70 | 1   | S69 and "gas seal"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>09:18 |
| S71 | 1   | S69 and "gas seal" and (pore or porosity)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>09:19 |
| S72 | 0   | S69 and "gas seal" and (pore or porosity) and ceramic and (fiber or fibers or filaments) and (powder) and (binder)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>09:20 |

| S73 | 0   | S69 and "gas seal" and (pore or porosity) and ceramic and (fiber or fibers or filaments) and (powder)             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>09:20 |
|-----|-----|---|---|----|-----|---------------------|
| S74 | 1   | S69 and "gas seal" and (pore or porosity) and ceramic   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>09:21 |
| S75 | 234 | "gas seal" and (pore or porosity) and ceramic   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>09:21 |
| S76 | 74  | "gas seal" and (pore or porosity) and ceramic and (percent or percentage or "%") and powder                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>10:04 |
| S77 | 34  | "gas seal" and (pore or porosity) and ceramic and (percent or percentage or "%") and powder and (fiber or fibers) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>11:24 |
| S78 | 0   | ("WO2002046122").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/29          |
| S79 | 3   | ("2002046122").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/29<br>10:11 |

| S80 | 452 | chartier.in.                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/29<br>10:12 |
|-----|-----|--|---|----|-----|---------------------|
| S81 | 50  | chartier.in. and ceramic                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/29<br>10:12 |
| S82 | 17  | chartier.in. and ceramic and (pores or porosity) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/29<br>10:13 |
| S83 | 0   | (60/319811).APP.                                 | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2007/01/29<br>11:25 |
| S84 | 0   | (60/319811).APP.                                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/29<br>11:28 |
| S85 | 2   | ("0162931").PN.                                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/29<br>11:28 |
| S86 | 2   | ("2001162931").PN.                               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/29<br>11:29 |

| S87 | 2    | (("2001162931") or ("22020143")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/29<br>11:30 |
|-----|------|--|---|----|-----|---------------------|
| S88 | 0    | ("sealandceramicandporousorporosityandpowderandfiber").PN.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/29<br>16:51 |
| S89 | 2321 | seal and (porosity or porous)and(ceramic with (powder or fiber)) and percent                             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/29<br>16:53 |
| S90 | 667  | seal and (porosity or porous)and(ceramic with (powder or fiber)) and percent.clm.                        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/29<br>16:53 |
| S91 | 1137 | seal and (porosity or porous)and(ceramic adj2 (powder or fiber)) and percent                             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/29<br>16:54 |
| S92 | 306  | seal and (porosity or porous)and(ceramic adj2 (powder or fiber)) and percent.clm.                        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/29<br>16:54 |
| S93 | 11   | (gas adj1 seal) and (porosity or porous)and(ceramic adj2 (powder or fiber)) and percent.clm.             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/29<br>16:56 |
| S94 | 7    | (gas adj1 seal) and (porosity or porous)and(ceramic adj2 (powder and fiber)) and (percent or percentage) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/29<br>17:05 |
| S95 | 132  | seal and (porosity or porous)and(ceramic adj2 (powder and fiber)) and (percent or percentage)            | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/29<br>17:06 |
| S96 | 108  | seal and porosity and(ceramic adj2 (powder and fiber)) and (percent or percentage)                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/29<br>17:06 |
| S97 | 17   | seal and porosity and(ceramic adj2 (powder and fiber)) and (percent or percentage).clm.                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/29<br>17:08 |

| S98  | 98 | seal and porosity and(ceramic adj2 (powder and fiber)) and (percent or percentage) and (alumina or zirconia)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29<br>17:09 |
|------|----|---|---|----|----|---------------------|
| S99  | 24 | seal and porosity and(ceramic adj2 (powder and fiber)) and (percent or percentage) and (alumina or zirconia).clm.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29<br>17:13 |
| S100 | 92 | seal and porosity and(ceramic adj2 (powder and fiber)) and (percent or percentage) and (alumina or zirconia)and (firing or fired or sintered or sintering)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29<br>17:14 |
| S101 | 11 | seal and porosity and(ceramic adj2 (powder and fiber)) and (percent or percentage) and (alumina or zirconia)and (firing or fired or sintered or sintering). ab.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/29<br>17:24 |
| S102 | 23 | seal and(ceramic adj2 (powder and fiber)) and (porosity near4(percent or percentage)) and (alumina or zirconia) and (firing or fired or sintered or sintering)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>08:49 |
| S103 | 23 | seal and(ceramic adj2 (powder and fiber)) and (porosity near4(percent or percentage)) and (alumina or zirconia) and (firing or fired or "pre-sintered" or "presintering" or "binder burnout")             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>09:41 |
| S104 | 24 | seal and(ceramic adj1 powder) and (ceramic adj1 fiber) and (porosity same (percent or percentage)) and (alumina or zirconia)and (firing or fired or "presintered" or "pre-sintering" or "binder burnout") | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>10:39 |

| S105 | 1    | seal and ((ceramic adj1 powder) near3 (ceramic adj1 fiber)) and (porosity same (percent or percentage)) and (alumina or zirconia) and (firing or fired or "presintered" or "pre-sintering" or "binder burnout")                                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/30<br>09:43 |
|------|------|---|---|----|-----|---------------------|
| S106 | 24   | (seal or "gas seal") and(ceramic adj1 powder) and (ceramic adj1 fiber) and (porosity with(percent or percentage)) and (alumina or zirconia)and (firing or fired or "pre-sintered" or "pre-sintering" or "binder burnout" or sinter or sintered) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/30<br>10:41 |
| S107 | 5    | (("4777153") or ("4883497") or ("5762737") or ("5846664") or ("5902429")).PN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2007/01/30<br>11:16 |
| S108 | 0    | S107 and porosity and ceramic and powder and fiber  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | OFF | 2007/01/30<br>11:16 |
| S109 | 5    | S107 and porosity and ceramic   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | OFF | 2007/01/30<br>12:03 |
| S110 | 5    | S107 and porosity and ceramic and powder  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | OFF | 2007/01/30<br>11:17 |
| S111 | 1    | S107 and porosity and ceramic and powder and seal   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | OFF | 2007/01/30<br>11:29 |
| S112 | 2    | S107 and porosity and ceramic and percentage  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | OFF | 2007/01/30<br>11:51 |
| S113 | 2    | S107 and porosity and ceramic and percentage and (oxidation or presintering or sintering or sintered)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/01/30<br>11:52 |
| S114 | 1578 | porosity and ceramic and ("pre-sintered" or oxidized or fired or sintered)  | EPO; JPO;<br>DERWENT;<br>IBM_TDB  | OR | ON  | 2007/01/30<br>12:09 |
| S115 | 2    | porosity and ceramic and ("pre-sintered" or oxidized or fired or "binder-burnoff") and (percent or percentage) and (alumina or zirconia)  | EPO; JPO;<br>DERWENT;<br>IBM_TDB  | OR | ON  | 2007/01/30<br>12:05 |
| S116 | 7    | porosity and ceramic and ("pre-sintered" or oxidized or fired or "binder-burnoff" or sinter) and (percent or percentage) and (alumina or "zirconia")  | EPO; JPO;<br>DERWENT;<br>IBM_TDB  | OR | ON  | 2007/01/30<br>12:05 |

| S117 | 20297 | porosity and ceramic and ("pre-sintered" or oxidized or fired or sintered)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>12:09 |
|------|-------|--|---|----|----|---------------------|
| S118 | 7705  | porosity and ceramic and ("pre-sintered" or oxidized or fired or sintered) and (percent or percentage) and (alumina or "zirconia")   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>12:10 |
| S119 | 7717  | porosity and ceramic and ("pre-sintered" or "presintered" or "noncompletely sintered" or oxidized or fired or sintered) and (percent or percentage) and (alumina or "zirconia")  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>12:11 |
| S120 | 5727  | porosity and ceramic and ("pre-sintered" or "presintered" or "incomplete sintering" or oxidized or fired) and (percent or percentage) and (alumina or "zirconia")  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>12:12 |
| S121 | 1692  | porosity and ceramic and ("pre-sintered" or "presintered" or "incomplete sintering" or oxidized or fired) and (percent or percentage) and (alumina or "zirconia") and (seal or (gas adj1 seal))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>12:12 |
| S122 | 65    | porosity and ceramic and ("pre-sintered" or "presintered" or "incomplete sintering" or oxidized or fired) and (percent or percentage) and (alumina or "zirconia") and (seal or (gas adj1 seal)) and (ceramic adj1 powder) and (ceramic adj1 fiber)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>12:22 |
| S123 | 12    | ceramic and ("pre-sintered" or "presintered" or "incomplete sintering" or oxidized or fired) and (porosity adj2(percent or percentage)) and (alumina or "zirconia") and (seal or (gas adj1 seal)) and (ceramic adj1 powder) and (ceramic adj1 fiber) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/30<br>15:08 |

| S124 | 1     | ("5824220").PN.  | US-PGPUB;<br>USPAT; USOCR          | OR | OFF | 2007/01/30<br>15:08 |
|------|-------|--|------------------------------------|----|-----|---------------------|
| S125 | 1     | ("5439627").PN.  | US-PGPUB;<br>USPAT; USOCR          | OR | OFF | 2007/01/30<br>16:04 |
| S126 | 0     | S125 and ceramic and tape and fiber and powder and seal                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/01/30<br>16:04 |
| S127 | 1     | S125 and ceramic and tape and fiber and powder                               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/01/30<br>16:06 |
| S128 | 0     | S125 and ceramic and tape and (ceramic adj1 fiber) and (ceramic adj1 powder) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/01/30<br>16:06 |
| S129 | 0     | S125 and ceramic and tape and (ceramic adj3 fiber) and (ceramic adj3 powder) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/01/30<br>16:06 |
| S130 | 82652 | gas with seal  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/09/12<br>14:16 |
| S131 | 5897  | S130 and alumina   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/09/12<br>13:57 |
| S132 | 1142  | S130 and alumina and porosity  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/09/12<br>13:57 |
| S133 | 701   | S132 and (fired or sintered)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/09/12<br>13:57 |
| S134 | 62    | S132 and ((fired or sintered) with (percent or "%"))                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/09/12<br>13:58 |
| S135 | 71    | ((gas adj2 seal) with (alumina or zirconia))                                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/09/12<br>14:29 |
| S136 | 383   | ((gas adj2 seal) same (alumina or zirconia))                                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/09/12<br>14:17 |
| S137 | 158   | ((gas adj2 seal) same (alumina or zirconia)) and (porosity or density)       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS | OR | ON  | 2007/09/12<br>14:17 |

| S138 | 19    | ((gas adj2 seal) same (alumina or zirconia)) and ((porosity or density) with (percent or percentage))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/09/12<br>14:22 |
|------|-------|---|---|----|-----|---------------------|
| S139 | 12    | ((gas adj2 seal) same (alumina or zirconia)) and ((porosity or density) with (percent or percentage)) and (fire or fired or sinter or sintered)                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/09/12<br>14:23 |
| S140 | 78    | ((gas adj2 seal) with (alumina or zirconia or ("al.sub.2 O.sub.3")))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/09/12<br>14:30 |
| S141 | 18    | ((gas adj2 seal) with (alumina or zirconia or ("al.sub.2 O.sub.3"))) and porosity   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS                                      | OR | ON  | 2007/09/12<br>14:30 |
| S142 | 1     | ("5098871").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/27<br>09:53 |
| S143 | 482   | (seal or tape) and (fire or fired) and porosity and (ceramic near3 fiber) and (ceramic with (powder or particle)) and (size or diameter or (micro near2 meter))                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>11:13 |
| S144 | 83455 | "384"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>11:16 |
| S145 | 0     | S143 and S144   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>11:16 |
| S146 | 758   | (seal or tape) and (fire or fired or sinter or sintered) and porosity and (ceramic near3 fiber) and (ceramic with (powder or particle)) and (size or diameter or (micro near2 meter)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>11:17 |

| S147 | 0      | S146 and S144   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>11:18 |
|------|--------|---|---|----|-----|---------------------|
| S148 | 285315 | "428"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>11:18 |
| S149 | 174    | S148 and S146   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>11:18 |
| S150 | 489    | (seal) and (fire or fired or sinter or sintered) and porosity and (ceramic near3 fiber) and (ceramic with (powder or particle)) and (size or diameter or (micro near2 meter)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>19:23 |
| S151 | 285315 | "428"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>19:24 |
| S152 | 97     | S150 and S151   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/27<br>19:24 |
| S153 | 1      | ("20040135324").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/30<br>12:13 |
| S154 | 1      | ("20040135324"). PN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/01/16<br>11:20 |
| S155 | 1      | ("4933309").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2010/01/02<br>15:54 |

| S156 | 888 | (seal or tape) and (fire or fired or sinter or sintered) and porosity and (ceramic near3 fiber) and (ceramic with (powder or particle)) and (size or diameter or (micro near2 meter)) and (coated or uncoated or coating)                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/17<br>15:25 |
|------|-----|--|---|----|----|---------------------|
| S157 | 205 | "428"/\$.ccls. and(seal or tape) and (fire or fired or sinter or sintered) and porosity and (ceramic near3 fiber) and (ceramic with (powder or particle)) and (size or diameter or (micro near2 meter)) and (coated or uncoated or coating)    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/17<br>15:25 |
| S158 | 92  | "428"/\$.ccls. and(seal or tape) and (fire or fired or sinter or sintered) and porosity and ((ceramic near3 fiber) same (coated or uncoated or coating)) and (ceramic with (powder or particle)) and (size or diameter or (micro near2 meter)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/17<br>15:26 |

## **EAST Search History (Interference)**

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